

Lab Upgrades Workgroup

Status Update of the Emission Test Laboratory Upgrade WorkGroup

**to the
Mobile Sources Technical Advisory Subcommittee
of the Clean Air Act Advisory Committee**

April 15, 1998

The Purpose of the Workgroup

To advise OMS on the technical merits of its draft,
multi-year plan to upgrade its testing capabilities,
and

To provide insight and recommendation to improve
the plan

Lab Upgrades Workgroup

Industry Membership

Engine Manufacturers

Bill Baker	Detroit Diesel Corporation
Richard Bishop	John Deere
Randy Brown	Poulan WeedEater
Bill Frank	Briggs & Stratton Corporation
Robert Jorgensen	Cummins Engine Company (co-chair)

Vehicle Manufacturers

Giedrius Ambrozaitis	Mercedes Benz
Robert Bisaro	Ford Motor Company
Richard Pearl	Toyota Motor Corporation
Al White	Chrysler Corporation

Fuels

James Williams	American Petroleum Institute
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Govt & Academic Membership

Academia

John Johnson	Michigan Tech University
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Government

Richard Gibbs	State of New York
Mike Sabourin	OMS / U.S. EPA (co-chair)
Raphael Susnowitz	California Air Resources Board

Lab Upgrades Workgroup

Study Subgroups

- | | |
|-------------------------------------|---|
| 1. LD Vehicles & Trucks: | Giedrius Ambrozaitis, Robert Bisaro, Richard Pearl, Raphael Susnowitz, and Al White |
| 2. Heavy Duty: | Bill Baker, Richard Bishop, Richard Gibbs, and Bob Jorgensen |
| 3. Grounds Care Units: | Bill Frank and Randy Brown |
| 4. Fuels: | Jim Williams, Bill Baker, James Hyde (NY), Richard Pearl |

Progress to Date

- **6 Workgroup Meetings to Date**
 - Adopted a Charter
 - Reviewed Original OMS plan.
- **Subgroups Visited the OMS Laboratory**
 - Toured Lab
 - Discussed sector-specific issues
- **Final Report in 2nd Draft.**
 - Addresses equipment and staff skills.
 - Contains recommendations and rationale.

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WorkGroup Meetings

1. **August 20, 1997** - kickoff meeting, presented overview of program and laboratory
2. **September 25, 1997** - reviewed specific areas of program requirements and laboratory capabilities
3. **November 18, 1997** - reviewed specific recommendations under consideration

Workgroup Meetings

1. **January 20, 1998** - review subgroup draft reports and discuss issues.
2. **March 3, 1998** - review remaining Vehicle/Engine issues and the first draft of final report.
3. **March 30, 1998** - review fuels issues and second draft of final report.

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General

Recommendations Under Consideration

- Provide high quality core test capabilities
- Quality is most important, quantity is secondary
- Assure that major energy savings upgrades to lab do not compromise emission testing
- Modernize staff skills - to operate new equipment
- Provide national leadership for Gas Standards used during emission measurements
- Obtain ISO 9000 Certification

Light Duty Vehicles & Trucks

Recommendations Under Consideration

- Capable of Measuring LEV and ULEV's
- Capable of Measuring Impacts of Oxy fuels and CNG
- Provide a dedicated site for Diesel testing.
- Capable of Measuring a range of Particulate Matter Properties.
- Provide SC03 Testing after core testing needs met.
- Provide Enhanced Evap Testing after core testing needs met.

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Heavy-Duty Engines

Recommendations Under Consideration

- Research new test methods and equipment (e.g. partial flow dilution)
- Increase emphasis on HC and NMHC measurement (issue: combined NOx and NMHC limits)
- Capable of testing Alternatively Fueled engines
- Examine safety associated with natural gas and propane fueled engines
- Clarify testing for engines > 600 hp
- Clarify testing for vehicles < 14,000 lbs

Next Steps

- Next meeting (April 28):
 - Review a reformatted draft report.
 - Discuss remaining issues & executive summary.
- May 28 meeting:
 - Review the complete draft final report
 - Finalize remaining issues and any minority opinions.
 - Member facilitate Company internal reviews before the June meeting.
- June 30 meeting:
 - Approve report delivery to the Subcommittee
 - Construct the presentation to the subcommittee.
- July 15 FACA Subcommittee: Present report.